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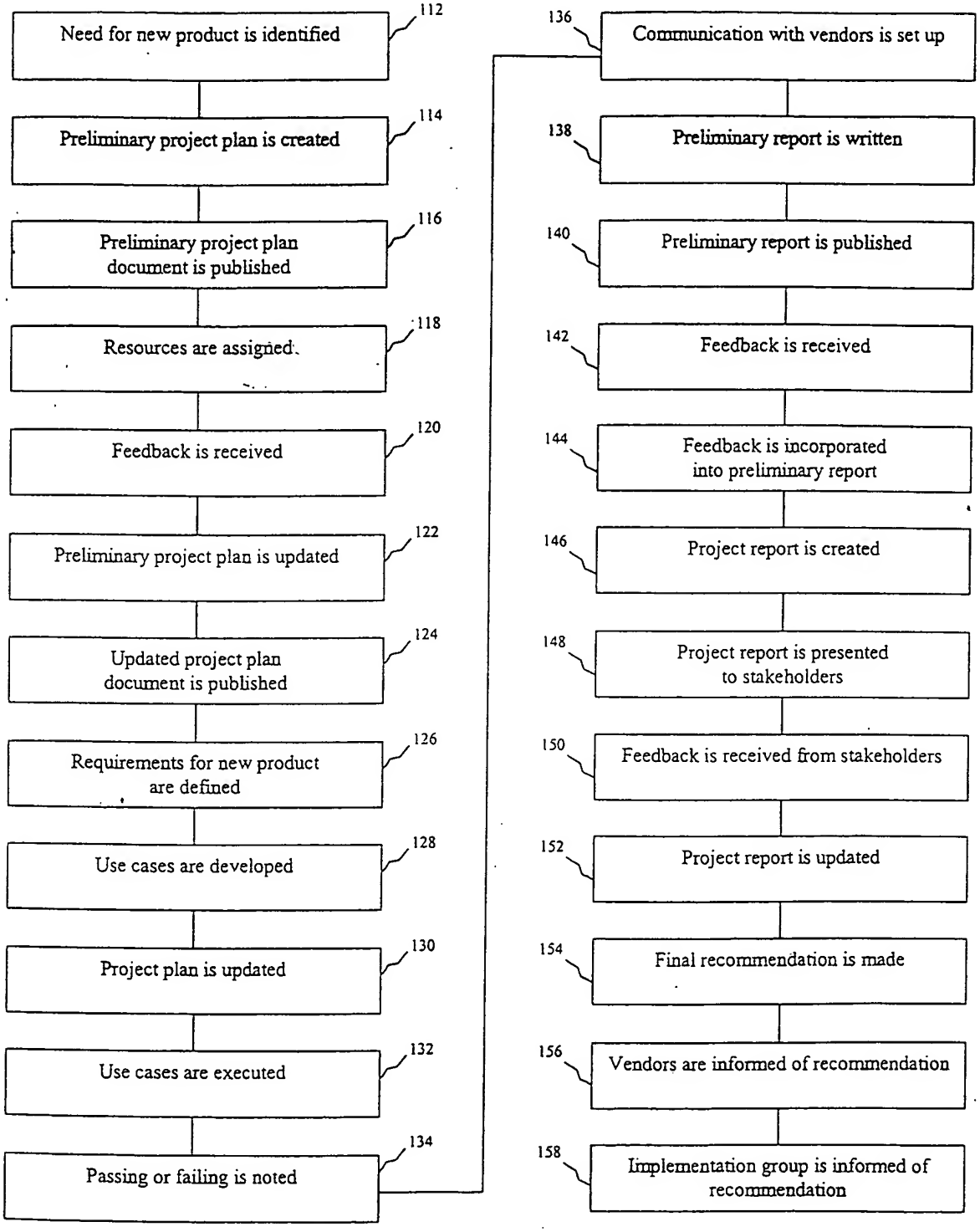
Need for new product is identified
112
Preliminary project plan is created
114
Preliminary project plan document is published
116
Resources are assigned
118
Feedback is received
120
Preliminary project plan is updated
122
Updated project plan document is published
124
Requirements for new product are defined
126
Use cases are developed
128
Project plan is updated
130
Use cases are executed
132
Passing or failing is noted
134
Communication with vendors is set up
136
Preliminary report is written
138
Preliminary report is published
140
Feedback is received
142
Feedback is incorporated into preliminary report
144
Project report is created
146
Project report is presented to stakeholders
148
Feedback is received from stakeholders
150
Project report is updated
152
Final recommendation is made
154
Vendors are informed of recommendation
156
Implementation group is informed of recommendation
158

Figure 1

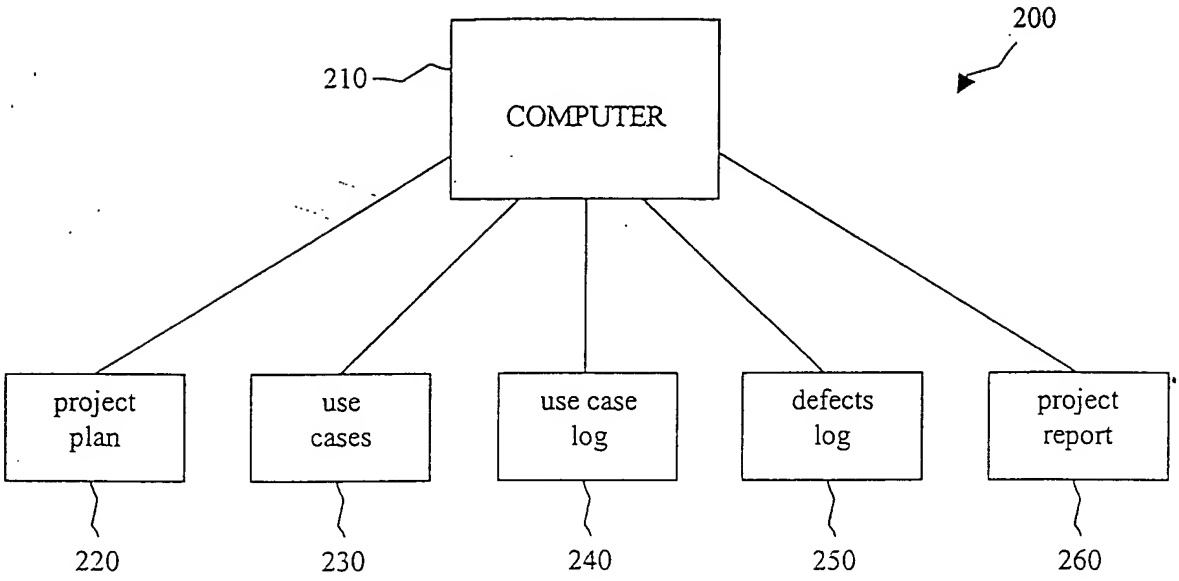
200
210
COMPUTER
project plan
use cases
use case log
defects log
project report
220
230
240
250
260

Figure 2

Common Integration Infrastructure Services POC Requirements

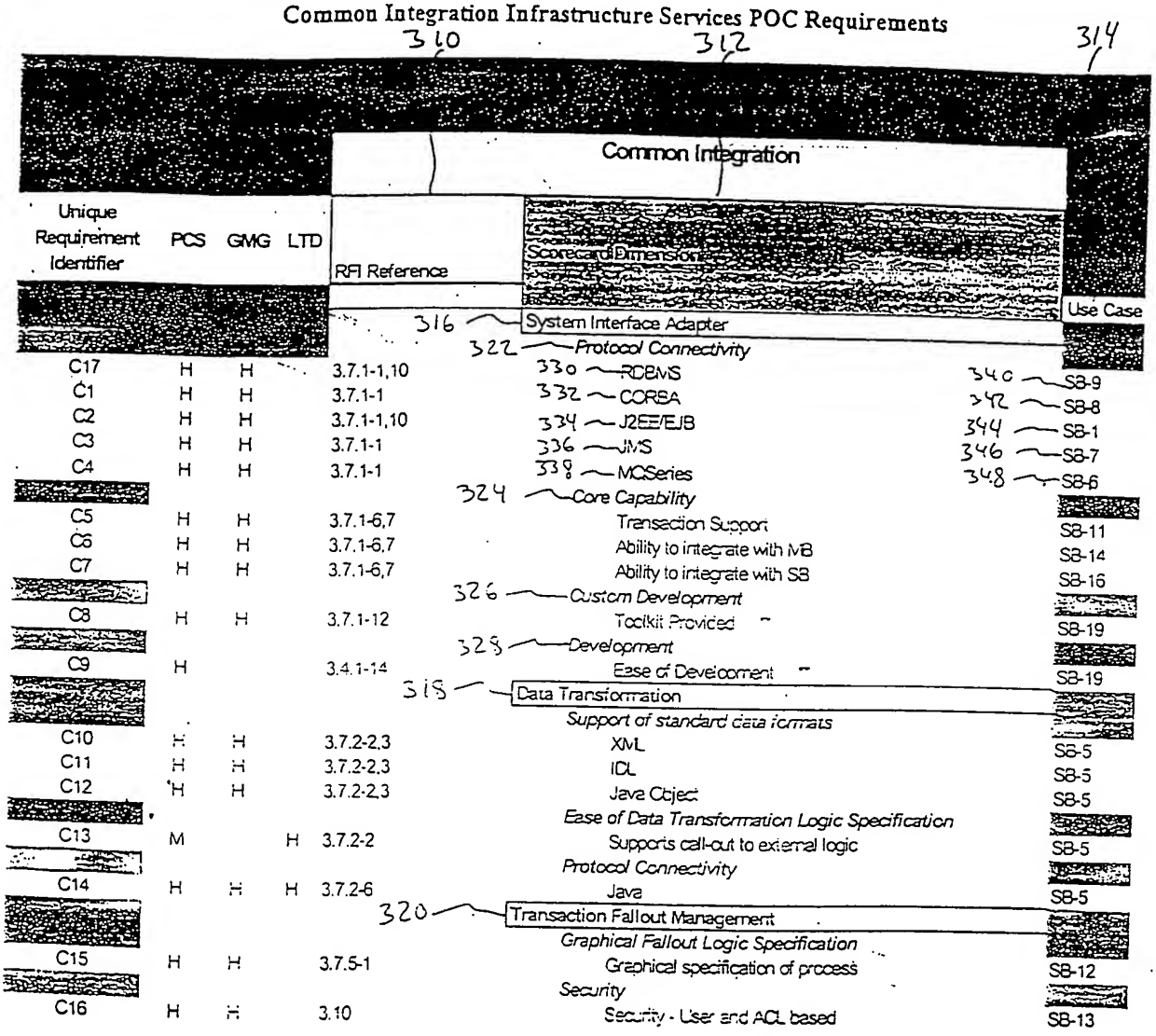

Figure 3

410	412	414	416	
6	System Interface Adapter (SIA)	System Interface Adapter with MQ interface	Interface definition	SB1
			Synchronous invocation interface	SB8
			Java/RMI interface	SB11
			Can invoke external System Interface Adapter	SB6
			Data Transformation	SB5
			MQ Series interface with System Interface Adapter	C4
			Support for flow specification	SB7
7	System Interface Adapter (SIA)	System Interface Adapter with JMS	Interface definition	SB1
			Synchronous invocation interface	SB8
			Java/RMI interface	SB11
			Can invoke external System Interface Adapter	SB6
			Data Transformation	SB5
420		418	JMS interface with the System Interface Adapter	C3
			Support for flow specification	SB7
8	SIA	System Interface Adapter with Corba and Complex Flow	Interface definition ~ 422	SB1
			Synchronous invocation interface ~ 424	SB8
			Java/RMI interface ~ 426	SB11
			Can invoke external System Interface Adapter ~ 428	SB6
			Data Transformation ~ 430	SB5
			Corba interface with the System Interface Adapter ~ 432	C1
			Support for flow specification ~ 434	SB7
9	SIA	System Interface Adapter with RDBMS	Interface definition	SB1
			Synchronous invocation interface	SB8
			Java/RMI interface	SB11
			Can invoke external System Interface Adapter	SB6
			Data Transformation	SB5
			DBMS interface with the System Interface Adapter	
			Support for flow specification	SB7
10	SIA	System Interface Adapter with J2EE/EJB	Interface definition	SB1
			Synchronous invocation interface	SB8
			Java/RMI interface	SB11
			Can invoke external System Interface Adapter	SB6
			Data Transformation	SB5
			System Interface Adapter interface (J2EE/EJB)	C2
			Support for flow specification	SB7

Figure 4

The following chart shows in detail the status of each use case.

500

UC # (510)	Use Case Abstract (512)	Use Case Status (P/F) (514)	Defect - Large Bold => Sev 1 or 2 (516)
SB 1	SB - RMI Interface	Pass	
SB 2	SB - Web Services interface	Pass	24, 33
SB 3	SB - IIOP Interface	Fail	13, 17
SB 4	SB - Corba Interface	Fail	**5**, 12, 14, 19, 27
SB 5	SB - Data Transformation	Pass	16
SB 6	SIA - MQ SIA	Pass	34
SB 7	SIA - JMS SIA	Pass	7,32
SB 8 (518)	SIA - Corba SIA (520)	Fail (522)	**5** (524)
SB 9	SIA - RDBMS SIA	Pass	11, 25
SB 10	SIA - EJB SIA	Fail	**20**, 21
SB 11	SB - Trans Mgmt	Pass	
SB 12	SB - Trans Fallout	Pass	
SB 13	SB - Security Intg	Pass	
SB 14	SB - MB integration	Fail	**6**
SB 15	SB - Aggregate	Pass	
SB 16	SB - Performance	Fail	**43**, 45, **46**, **47**, 48, **49**, 51, **52**, 54
SB 17	SB - Availability	Incomplete	9, 28
SB 18	SB - Naming Svc intg	Pass	
SB 19	SIA - Ease of Development	Pass	
SB 20	Data Transformation Ease of Develop.	Pass	
SB 21	SB - Ease of Development	Pass	29, 31, 36, 37, 41
SB 22	SB - Ease of Deployment	Pass	8, 30, 40

Figure 5

Use Case #8: System Interface Adapter with CORBA Interface

612

Brief Description ~ 614

This functionality allows a client application to use a service provided by a back-office application that exposes a CORBA interface.

Requirement Cross Reference ~ 616

Interface Definition	SB1
Synchronous Invocation Interface	SB8
Java/RMI Interface	SB11
Can invoke external System Interface Adapter	SB6
System Interface Adapter Corba Interface	C1
Support for flow specification	SB7

Importance ~ 618

The System Interface Adapter (SIA) is a technology associated with Service Brokering that allows for the integration of back office applications with applications using other technologies. The Service Brokering allows for such integration via SIAs. A client application may use one technology to interface with a back-office application say Java/RMI and the back office application can expose an interface using different technology, say CORBA.

A CORBA SIA is particularly important to Sprint due to Sprints current use by back-office applications and it's compliance with industry standard specifications.

Status ~ 620

Fail

Reason(s) for Failure ~ 622

POC0005: CrossWorlds CORBA Connector does not support unions and sequences. This impacts both client and server side connectors. Most of the existing interfaces in Sprint use sequences extensively in both in, out, in/out and return values. The use of unions in our idl interfaces is much smaller when you compare it to sequences.

Workaround(s) if any ~ 624

Need to modify existing interfaces to remove sequences and instead somehow return one datatype (like an XML string). This would require lot of retooling of our backend existing interfaces.

Level of Effort (LOE) for Workaround ~ 626

N/A

Figure 6